1756625A4

C. DUKES SCOTT EXECUTIVE DIRECTOR



DAN F. ARNETT CHIEF OF STAFF

Phone: (803) 737-0800 Fax: (803) 737-0801

September 1, 2005

VIA U.S. MAIL

Charles L. A. Terreni, Esquire Chief Clerk/Administrator South Carolina Public Service Commission 101 Executive Center Drive, Suite 100 Columbia, South Carolina 29210

2005-270-6

SEP 0 7 2005

C. PUBLIC SERVICE COMMISSION

RECEIVED

SEP 1 2 2005

PSC SC DOCKETING DEPT.

Dear Mr. Terreni:

On February 28, 2005, the Pipeline Safety Department of the Office of Regulatory Staff became aware of a non-reportable incident that had occurred on January 29, 2005, at a residence located at 1140 Ridgecrest Avenue, North Augusta, S.C. After an extensive investigation among all parties involved of the facts surrounding the incident, we determined that there may be a potential hazard arising from the use of certain meter set configurations, such as the one used at this residence.

Specifically, our investigation suggests that the service regulator vent iced over at the time the residence's appliances were calling for gas. When the applicances no longer called for gas and the demand decreased, the regulator was unable to vent and, therefore, placed undue pressure on the piping system of the home. Consequently, a fire occurred which caused approximately \$3,000 in damage to the home.

On June 21, 2005, we sent a letter to all operators in the state to survey 1) how many of these meter sets are in service, 2) how many are affected by water spillage or rainwater runoff onto the meter set, and 3) how many over-pressure problems related to freezing temperatures have occurred on this type of meter set. We learned that approximately 108,000 of these meter sets are in service, with approximately 23,700 being affected by water spillage or rainwater runoff. Other than the aforementioned incident, the survey indicates no other reports of over-pressure problems occurring downstream of these meter sets due to freezing temperatures. These meter sets have been in use in South Carolina approximately 40 years. We are aware that South Carolina Electric and Gas is voluntarily installing, at least in some of these meter sets, a device known as a splash guard which is inserted in the vents of service regulators located directly above the meters. This device is designed to help prevent freeze-up of the vent when moisture is

present and temperatures fall below freezing. Also, we are informed that Atlanta Gas Light, as a company policy, is installing splash guards on this type of meter set.

On August 23, 2005, we requested information from each of the eleven pipeline safety programs in the southern region operating under jurisdiction of the Pipeline and Hazardous Materials Safety Administration. No state in the southern region has introduced state regulations relating to or as a result of over-pressure problems with this particular meter set configuration and freezing temperatures.

We have prepared an official advisory for all gas system operators explaining the potential hazard related to the meter set configuration that was the subject of our investigation. We further advise that where these meter sets are in service and affected by water spillage or rainwater runoff, there could be a possibility of over-pressure downstream of the meter if the regulator vent iced over during sub-freezing temperatures. We are recommending that operators identify any of these herein described meter sets in service on their systems and be prepared to take appropriate action where deemed necessary. Actions may include, but are not limited to, reconfiguring these sets, relocating these meters and service regulators, and/or installing splash guards in the vents of certain service regulators.

Because the Public Service Commission is the rulemaking state agency for pipeline safety, we are furnishing this information so the Commission can determine whether a regulation should be promulgated requiring relocation of certain meter sets or installation of splash guards on these meter sets.

Please see the attached information supporting the findings of our investigation and the advisory notice.

Sincerely,

Shannen Bowyn Hudson Shannon Bowyer Hudson

Enclosures



1441 Main Street, Suite 300 Columbia, SC 29201

Phone: (803) 737-0800 Fax: (803) 737-0801

> VERNON L. GAINEY, CPM **SUPERVISOR** PIPELINE SAFETY

JOHN W. FLITTER DIRECTOR **ELECTRIC & GAS REGULATION**

September 1, 2005

To: All Gas System Operators in South Carolina.

Re: Certain customer meter set configurations where the service regulator is situated directly above and in close proximity to the meter casing.

Dear Operator,

Please find enclosed an official advisory as notification that the Office of Regulatory Staff has determined that a potential safety hazard may exist on certain meter set configurations where the regulator vent is positioned directly above the meter and these are subject to moisture buildup. If temperatures fall below freezing and the vent on this regulator freezes over, then the regulator could become inoperable causing undue pressure on the home piping system.

According to our investigation, approximately 108,000 services in South Carolina are configured as mentioned above. Approximately 23,700 of these are subject to moisture buildup, such as rainwater run-off. Although only one incident of over-pressure relating to these meter sets has been reported by South Carolina operators, we feel it necessary to issue this advisory so that the possibility of this potential hazard will be known.

Also, please find attached a copy of the Pipeline Safety Staff contact list. Please take a moment to check the information contained in your emergency plans and other files to insure you have the most recent information.

Thank you for your corporation with these matters and please notify us in the event you have a any questions that you may feel we could assist you with.

Sincerely,

Vernon L. Gainey, Supervisor

Pipeline Safety

VLG/sh

Enclosure



OFFICE OF REGULATORY STAFF OF SOUTH CAROLINA

ADVISORY BULLETIN #: EGPS080501

Issue Date: September 1, 2005

49 CFR Reference(s): N/A

Subject: Potential safety hazards associated with certain residential meter set configurations.

Office of Regulatory Staff of South Carolina Electric and Gas Regulation, Pipeline Safety P. O. Box 11263 Columbia SC 29211

PIPELINE SAFETY ADVISORY BULLETIN

Advisory Bulletin #: EGPS080501 Date Issued: September 1, 2005

To: All Jurisdictional Gas and Hazardous Liquid System Operators in South Carolina.

Purpose:

The purpose of this Advisory Bulletin is to make Operators aware of potential safety hazards which are associated with certain residential meter set configurations. Specifically, meter set configurations in which the service regulator is situated directly above and in close proximity to the meter casing are the subject of this Advisory Bulletin. When these meter sets are located in a position where water spillage or rainwater runoff may come in contact with the meter, there could be a possibility of over-pressure downstream of the meter if the service regulator ices over during sub-

freezing temperatures. In the event of regulator vent freeze-up, it is possible that undue pressure could be placed on the home's piping system.

Background:

Following a recently completed investigation of a consumer complaint, the Office of Regulatory Staff became aware of this potential hazard which may exist on systems in South Carolina. In the investigated incident which took place in January, 2005, the meter set was located in a position where rainwater runoff fell on the meter and splash from the rainwater caused the service regulator vent to freeze up when temperatures fell below 32° F, thus rendering the regulator vent inoperable. This freeze-up of the regulator vent resulted in over-pressure on the customer piping and subsequent fire inside the house.

In June, 2005, the ORS conducted a survey of all gas operators in the state to determine 1) how many of these meter sets are in service, 2) how many of these are affected by water spillage or rainwater runoff onto the meter set, and 3) how many over-pressure problems related to freezing temperatures have occurred on these type meter sets. Survey reports indicate that approximately 108,000 of these meter sets are in service, with approximately 24,000 being affected by water spillage or rainwater runoff. Other than the aforementioned January 2005 incident, the survey of gas operators indicates no other reports of over-pressure problems occurring downstream of these subject meter sets that are related to freezing temperatures.

Advisory:

It is recommended that each Operator identify the location any of these herein described meter set configurations in use on their systems and be prepared to take appropriate action as may be deemed necessary. Actions could include but not be limited to reconfiguring these sets, relocating them, or installing "splash guards" in the regulator vents.

Issued in Columbia, SC, Tuesday, September 1, 2005.

Vernon L. Gainey, Pipeline Safety Supervisor

1441 Main Street, Suite 300 Columbia, SC 29201



Phone: (803) 737-0800 Fax: (803) 737-0801

> VERNON L. GAINEY, CPM SUPERVISOR PIPELINE SAFETY

JOHN W. FLITTER DIRECTOR ELECTRIC & GAS REGULATION

June 21, 2005

To: All Gas System Operators

The Pipeline Safety Staff has recently been made aware that it is possible many Operators in South Carolina have residential meter sets configured in such a manner that the service regulator vents face downward just above the meter casing. (Please see attached for example.) The close proximity of the vents with the casing, coupled with them being installed below a roofline where the regulator vent may catch rainwater runoff poses a potential icing problem when temperatures fall below freezing. The freezing of the regulator vent generally results in a loss of gas flow to the customer. However, in some instances the regulator may become fixed in an open position, allowing gas to continue to flow when demand reduces, resulting in overpressure of the customer piping. This cumulates in the possibility of fire, and/or explosion in the customer's home.

We request that you provide a copy of a survey of your system showing how many of this type of meter set configurations are in service. Also, please show how many of these are located in a place where rainwater could spill directly onto the meter set. In addition, please indicate whether you have experienced overpressure problems associated with this type of configuration. We ask that you forward this information to our office within the next sixty (60) days. After reviewing the information provided to us, we will determine if any recommendations addressing safety concerns are warranted.

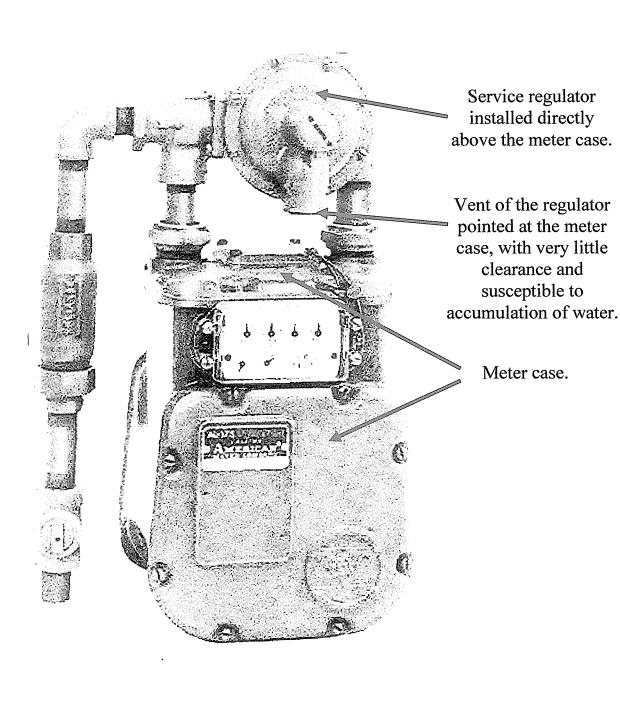
As always, thank you for your cooperation, and please feel free to contact this office with any questions you may have.

Sincerely,

Vernon L. Gainey, Supervisor

Pipeline Safety

Electric and Gas Regulation



OPERATOR SURVEY CONCERNING TYPE 12 METER SETS

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OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/18/2005 none n/a 1,610 6/21/2005 8/19/2005 none n/a 3,306 6/21/2005 8/12/2005 none n/a 737 6/21/2005 8/12/2005 none n/a 9,635 6/21/2005 8/12/2005 none n/a 1,610 6/21/2005 8/19/2005 none n/a 10 3,306 6/21/2005 8/12/2005 none n/a 10 9,635 6/21/2005 8/12/2005 none n/a 10 10	n/a	n/a	none	8/11/2005	6/21/2005	7,141	City of Union
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/19/2005 none n/a 1,610 6/21/2005 8/17/2005 none n/a 3,306 6/21/2005 8/12/2005 none n/a 9,635 6/21/2005 8/12/2005 none n/a 1,610 6/21/2005 8/19/2005	none	113	291	8/18/2005	6/21/2005	10,548	City of Orangeburg
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/18/2005 none n/a 1,610 6/21/2005 8/19/2005 none n/a 3,306 6/21/2005 8/12/2005 none n/a 737 6/21/2005 8/12/2005 none n/a 9,635 6/21/2005 8/12/2005 none n/a	n/a	n/a	none	8/19/2005	6/21/2005	7,344	City of Laurens
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/19/2005 6000 300 1,610 6/21/2005 8/17/2005 none n/a 3,306 6/21/2005 8/12/2005 none n/a 737 6/21/2005 8/12/2005 none n/a	none	10	3677	8/8/2005	6/21/2005	9,635	City of Fountain Inn
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/19/2005 none n/a 1,610 6/21/2005 8/19/2005 none n/a 3,306 6/21/2005 8/25/2005 none n/a	n/a	n/a	none	8/12/2005	6/21/2005	737	City of Blacksburg
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/19/2005 none n/a 1,610 6/21/2005 8/17/2005 none n/a	n/a	n/a	none	8/25/2005	6/21/2005	3,306	City of Bennettsville
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a 9,635 6/21/2005 8/19/2005 6000 300	n/a	n/a	none	8/17/2005	6/21/2005	1,610	City of Bamberg
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a none 6/21/2005 8/18/2005 none n/a	none	300	6000	8/19/2005	6/21/2005	9,635	Chester Co. NGA
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a 28 6/21/2005 8/18/2005 none n/a	n/a	n/a	none	8/18/2005	6/21/2005	none	Cherokee Co. Co-Gen
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a 48 6/21/2005 7/21/2005 none n/a	n/a	n/a	none	8/18/2005	6/21/2005	28	Charleston HA
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a none 6/21/2005 8/18/2005 none n/a	n/a	n/a	none	7/21/2005	6/21/2005	48	Blue Flame Gas Co.
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a none 6/21/2005 8/19/2005 none n/a	n/a	n/a	none	8/18/2005	6/21/2005	none	BASF Corp.
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER 118 6/21/2005 8/17/2005 none n/a	n/a	n/a	none	8/19/2005	6/21/2005	none	Ameresco, Inc.
OF METERS SENT RECEIVED TYPE 12 SETS BY WATER	n/a	n/a	none	8/17/2005	6/21/2005	118	Aiken HA
	EVENTS EVENTS	BY WATER	TYPE 12 SETS	RECEIVED	SENT	OF METERS	NAME OF OPERATOR

SURVEY OF SOUTHERN REGION STATES CONCERNING RULE MAKING

TENNESSEE	SOUTH CAROLINA	PUERTO RICO	NORTH CAROLINA	MISSISSIPPI	KENTUCKY	GEORGIA	FLORIDA PSC	FLORIDA LP	ARKANSAS	ALABAMA	REGION STATE TYPE
No	No	No	No	No	No	No	No	No	No	No	TYPE 12 METER SETS
None	Yes	None	None	None	None	Yes	None	None	None	None	PROBLEMS ON THESE SETS
None	There has been 1 (one) over pressure incident in South Carolina.	None	None	None	None	There have been as may as one dozen (12) over pressure incidents in Georgia.	None	None	None	None	